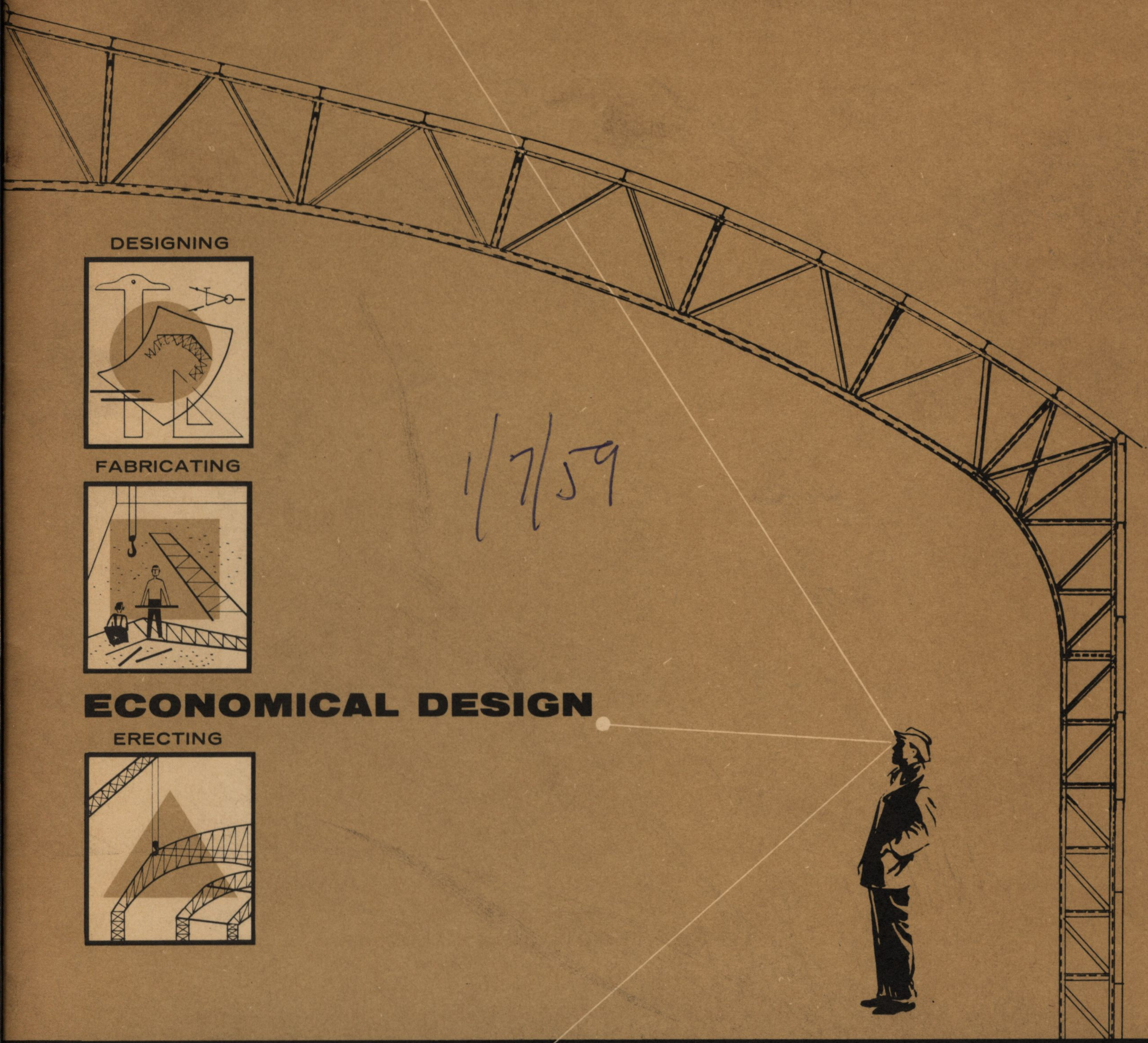
WIDE SPAN STEEL CONSTRUCTION



ECONOMICAL DESIGN

1/7/59

MILAN ENGINEERING CO., INC.

P.O.BOX 7231 · NEW ORLEANS 19, LA.

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FOREWORD . . .

The Raymond Arch Construction, designed and patented by Harold E. Raymond, Registered Civil Engineer, has been developed during the past ten years according to sound recognized engineering principles. There are no empirical formulae used and the design can be checked by any competent structural engineer.

The principles of this Arch Construction have been approved by every Engineer, Architect, Municipal Engineer and Federal Engineering Department where it has been submitted for approval. The design is flexible, which permits its use to comply with any building code specifying stress values with stipulated loadings for wind, snow and superimposed loads.

The inherent features of the design in the Arch Construction result in a reduction of as much as 25% of the steel required, with corresponding savings in cost, as compared with the usual truss designs in use.

The Raymond Arch Construction has been used in hundreds of various type buildings in Louisiana and the Southwestern States, such as Moisant International Airport, Teche Greyhound Bus Lines, U. S. Gypsum, Flintkote, major oil companies and numerous gymnasiums and auditoriums.

The Milan Engineering Company has a staff of engineers who are qualified to give complete engineering, design and estimating services to clients in the field of clear span buildings, including building foundations.

The combination of complete engineering and design facilities along with our modern and fully equipped steel fabricating shop enables us to provide the customer with the very best building possible at low total cost.

In the past we have worked closely with many architects and engineers on buildings of all sizes and shapes. We pride ourselves that our Widespan Arch and rigid frame designs are specified by many architects and engineers as a standard for clear span buildings.

We can furnish Raymond Arch buildings up to 200′ clear span and rigid frames or trusses to any specifications. These buildings are designed and fabricated in strict accordance with the American Society of Steel Construction Code, latest edition. If special loads or building codes are specified, our engineers can design the buildings to meet these requirements.

The following pages illustrate a few typical examples of the many and varied uses to which our buildings have been successfully adapted.

MILAN ENGINEERING CO., INC.

DAN MILAN - MEL OTT

P. O. BOX 7231 **PHONE VErnon 3-3711** **NEW ORLEANS 19, LOUISIANA**

THE SPRINKLED ARCH

(Patent No. 2,734,583)

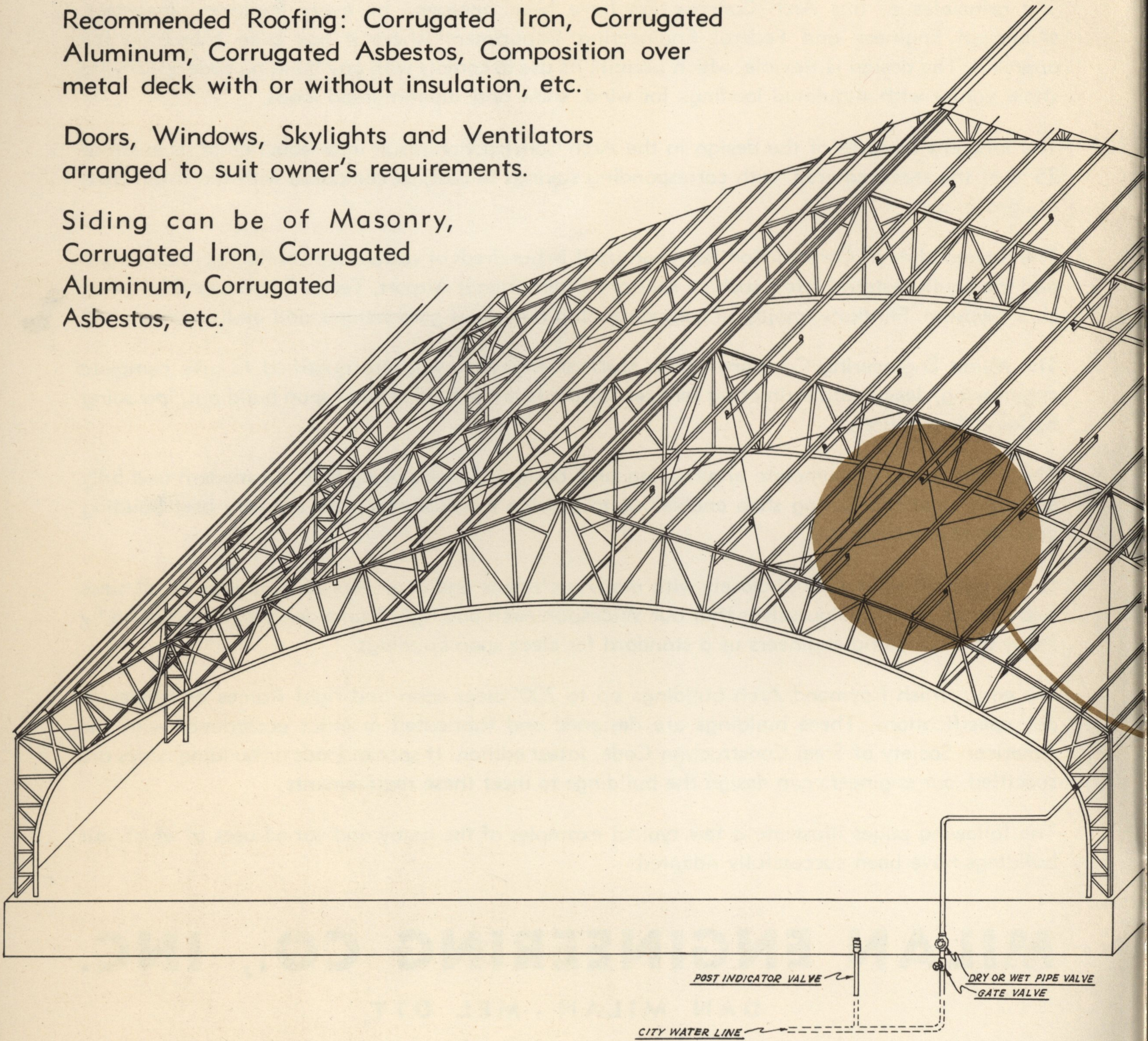
The newest design in building construction and one of the most practical. Built-in as an integral part of the structural members, is a conductor for the sprinkling, cooling or heating agent.

By combining the functions of the members the cost is proportionately reduced, making a better buy for the customer.

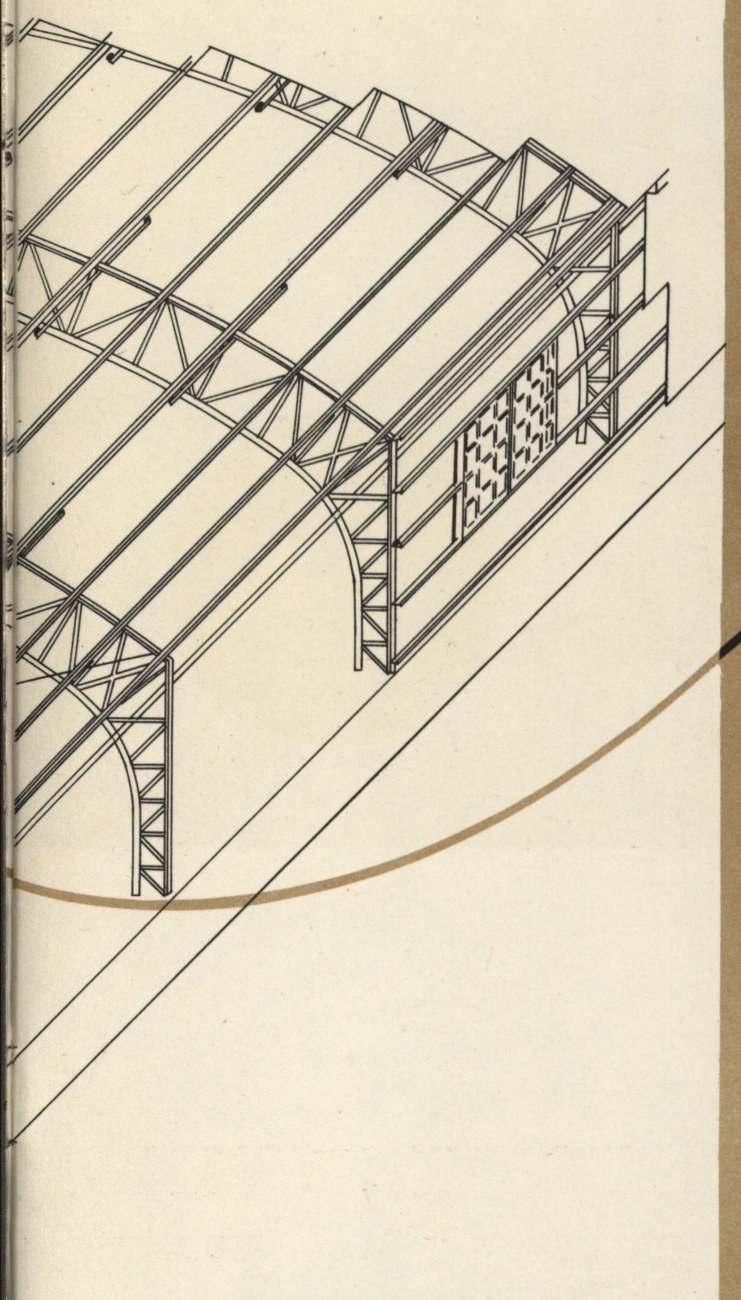
Recommended Roofing: Corrugated Iron, Corrugated Aluminum, Corrugated Asbestos, Composition over metal deck with or without insulation, etc.

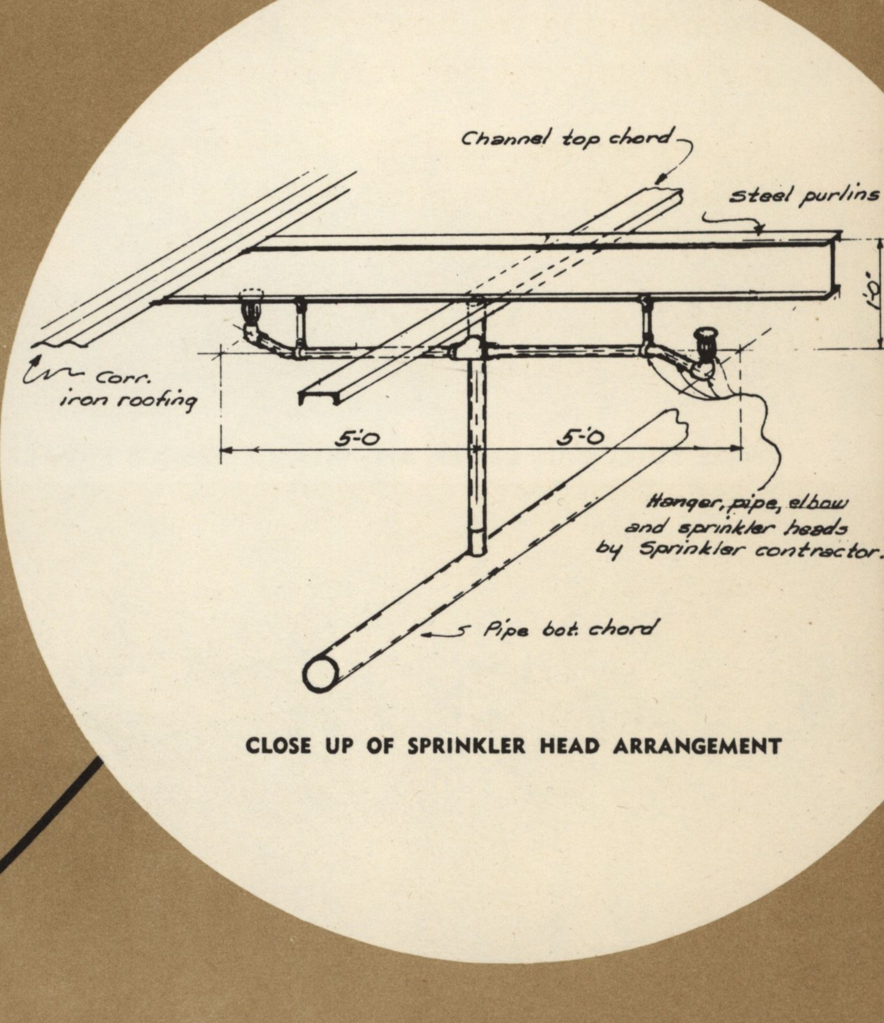
Doors, Windows, Skylights and Ventilators arranged to suit owner's requirements.

Siding can be of Masonry, Corrugated Iron, Corrugated Aluminum, Corrugated Asbestos, etc.



Let us work out your problems should you have need for a warehouse, manufacturing plant, shop, gymnasium or any type of structure in which sprinkling is a "must".

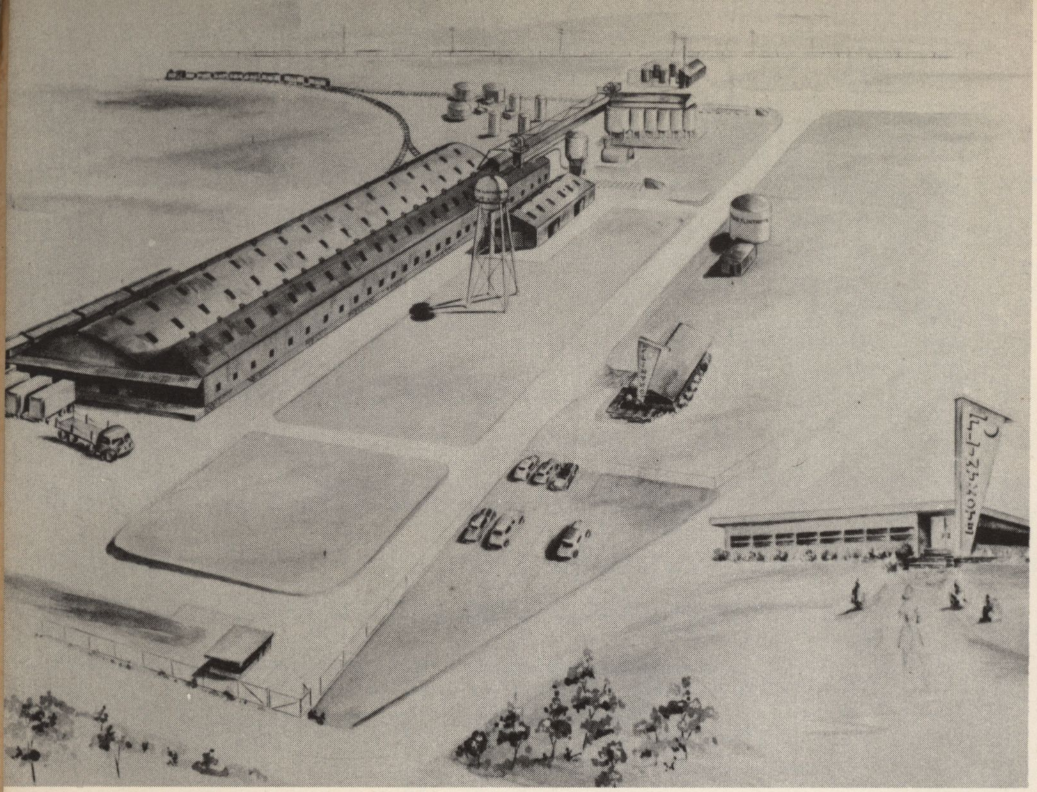




CLOSE UP OF SPRINKLER HEAD ARRANGEMENT

This detail shows the simplicity of construction and the neat appearance of the steel framing. The round sections eliminate dust pockets and dirt traps.

To make this a sprinkled building, there remains only the installation of feeder lines, controls, branch lines and sprinkler heads. By pre-designing and prefabricating all cross-over lines and risers, great savings are made, both in construction and field erection.



THESE BUILDINGS COVER AN AREA OF 106,000 SQUARE FEET

←

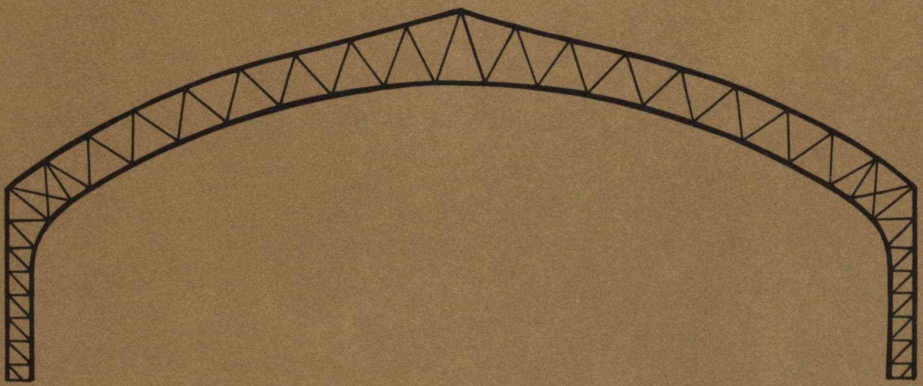
FLINTKOTE ROOFING PLANT
ENNIS, TEXAS

PATENTED STANDARD ARCH

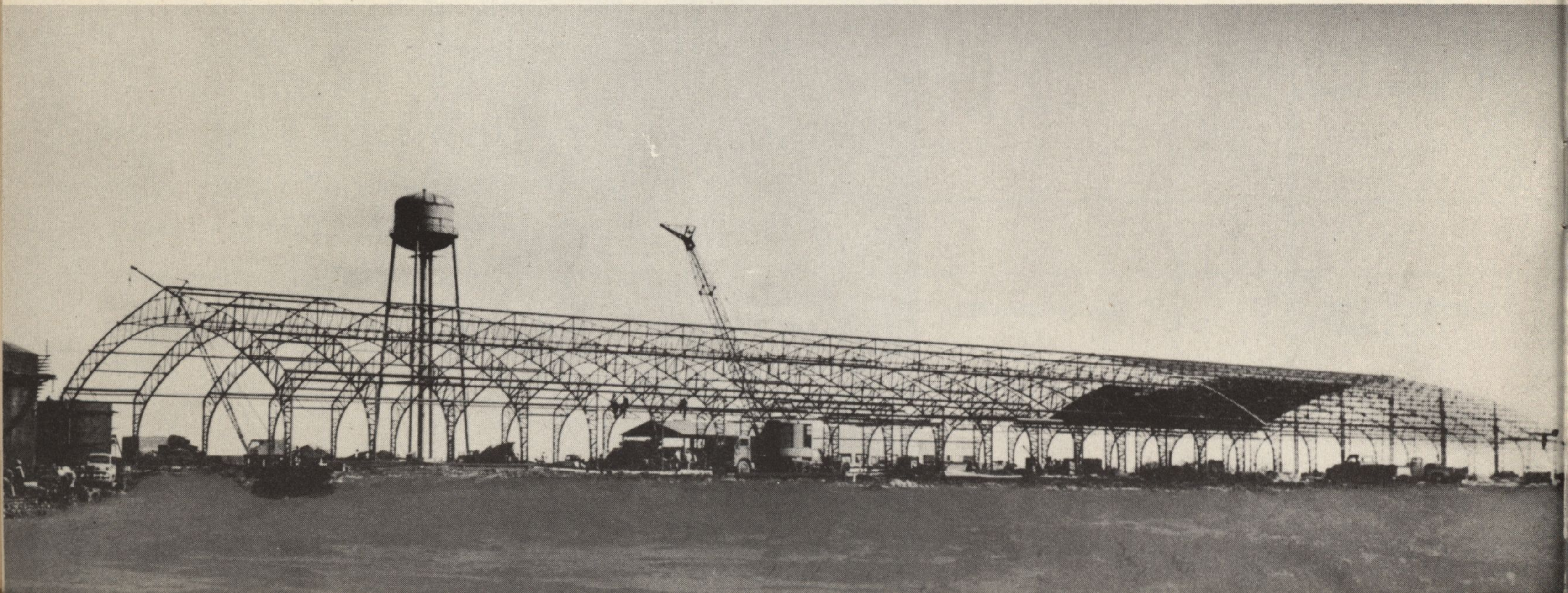
(Patents Nos. 2,237,198 and 2,778,797)

This unit is designed in from 50 ft. to 200 ft. clear spans, furnished with straight or curved top chord. The eave height can be varied to suit the owner's requirements. By using this type of arch construction, complete steel design, engineering data, stress diagrams, etc., can be furnished to the architect or engineer; he need only develop the architectural features and the exterior trim.

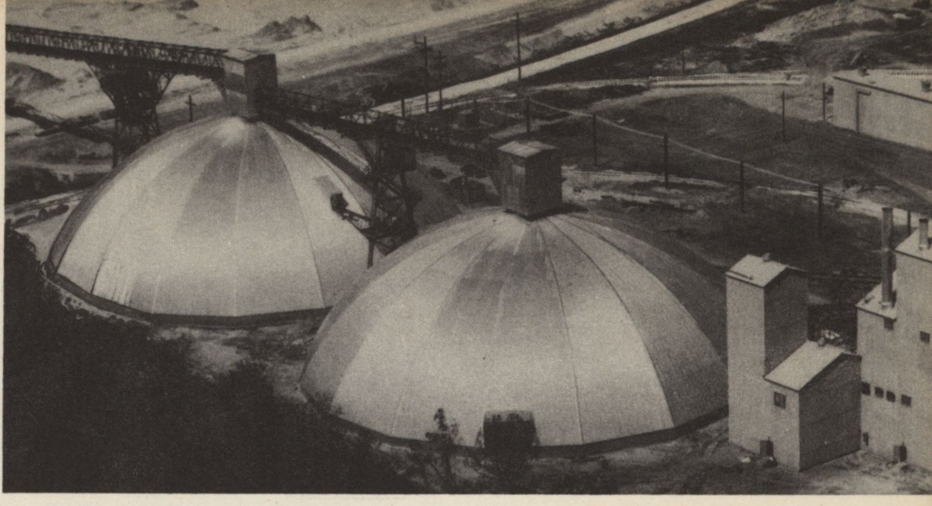
The loadings can be developed for any building code or to suit the owner's requirements.

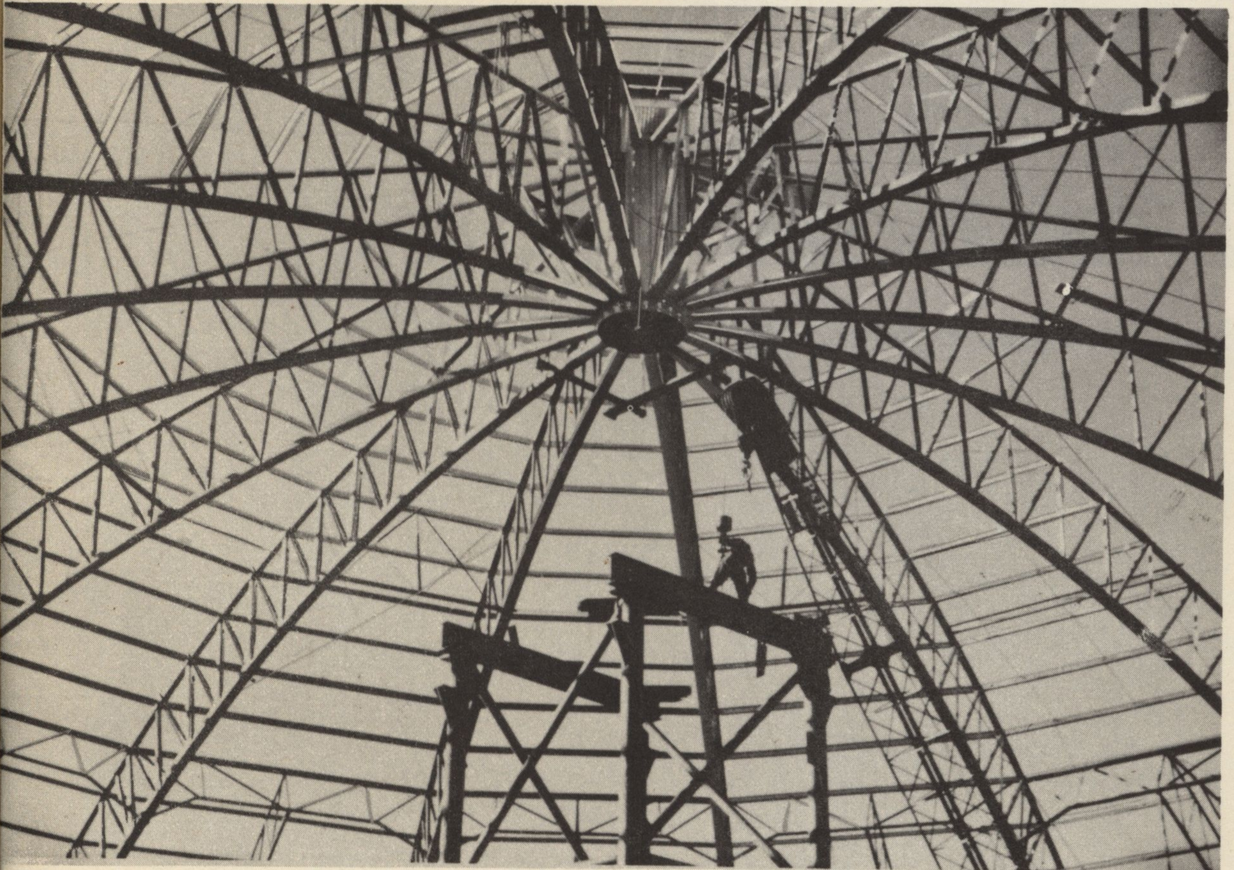


FLINTKOTE ROOFING PLANT
ENNIS, TEXAS
SHOWING FRAMEWORK
↓ **THIS BUILDING 123'x540'**



U. S. GYPSUM COMPANY
PLANT
INDUSTRIAL CANAL
NEW ORLEANS, LA.

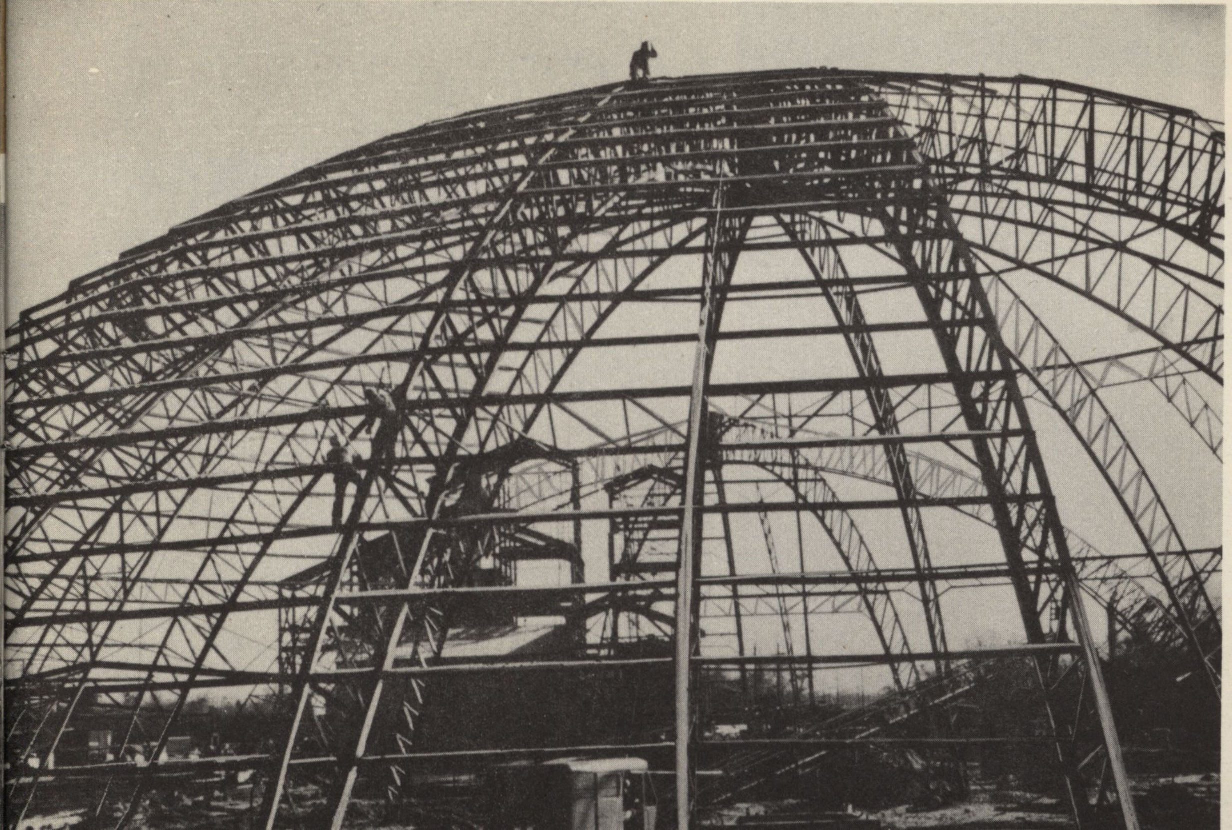


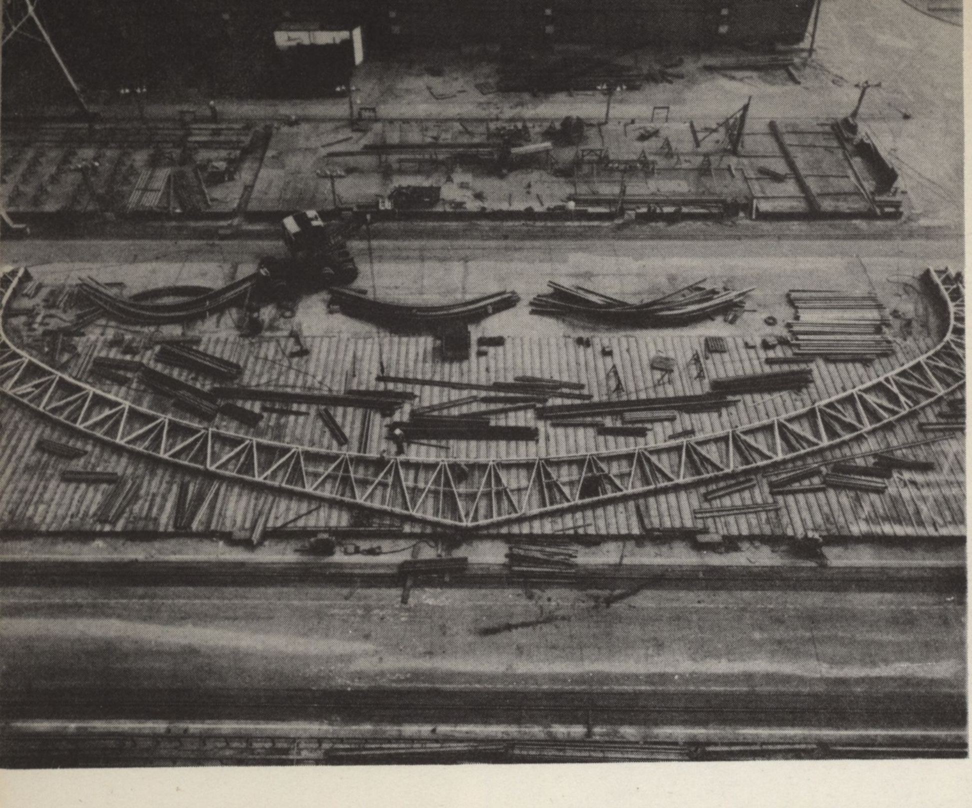


BUILDING SPECIFICATIONS

210' Clear Span 90' High, each building supports load of 120 kips at peak. No interior columns. Covered with 22-gauge corrugated galvanized iron, secured with self-tapping screws.

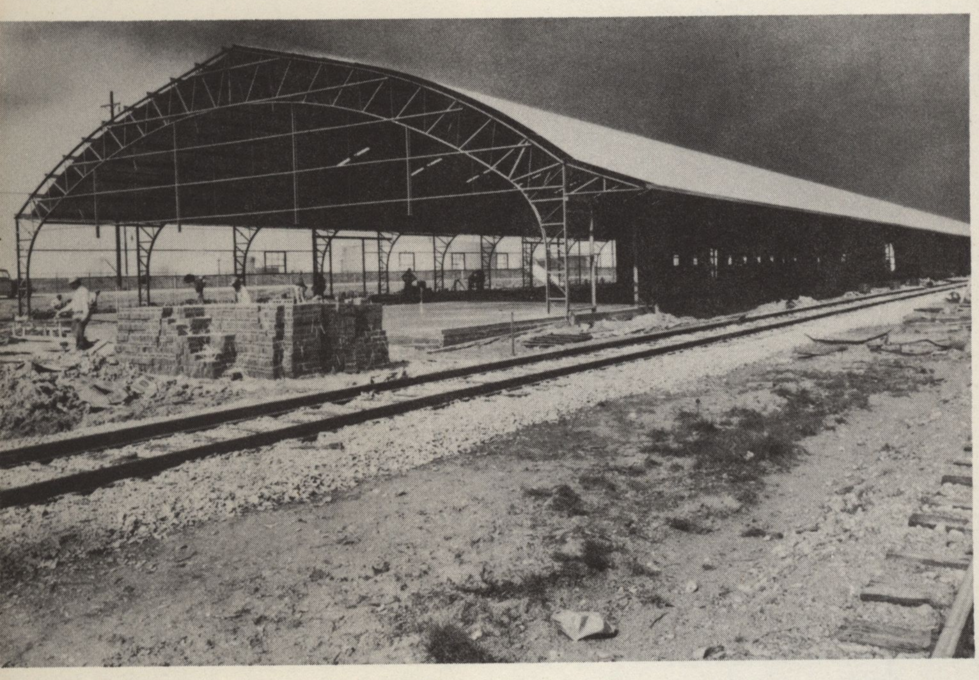
The May 1957 issue of Factory Management, a McGraw-Hill publication, cited these buildings as an outstanding design for material handling.





200-FOOT CLEAR SPAN
U. S. NAVY
FOR ERECTION OVERSEAS

★



JONES & LAUGHLIN
STEEL BARREL DIVISION
PORT ARTHUR, TEXAS

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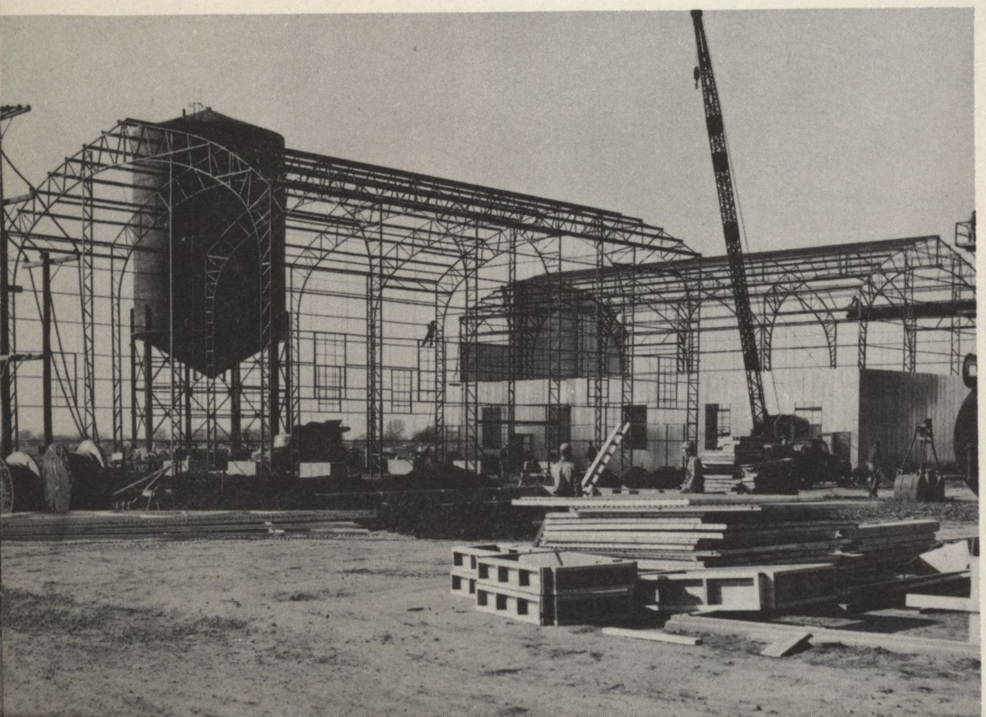
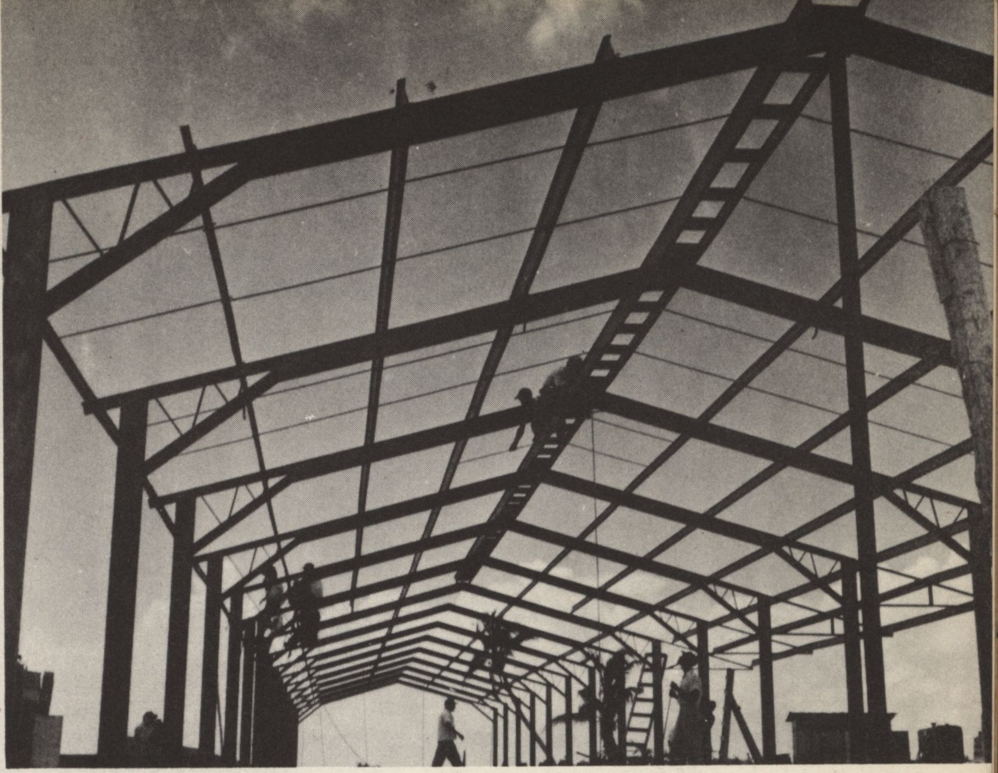


PELLETIZING BUILDINGS
CONOCO OIL COMPANY
PONCA CITY, OKLAHOMA

SCHOOL BUILDINGS
JESUIT MISSION
BELIZE, BRITISH HONDURAS



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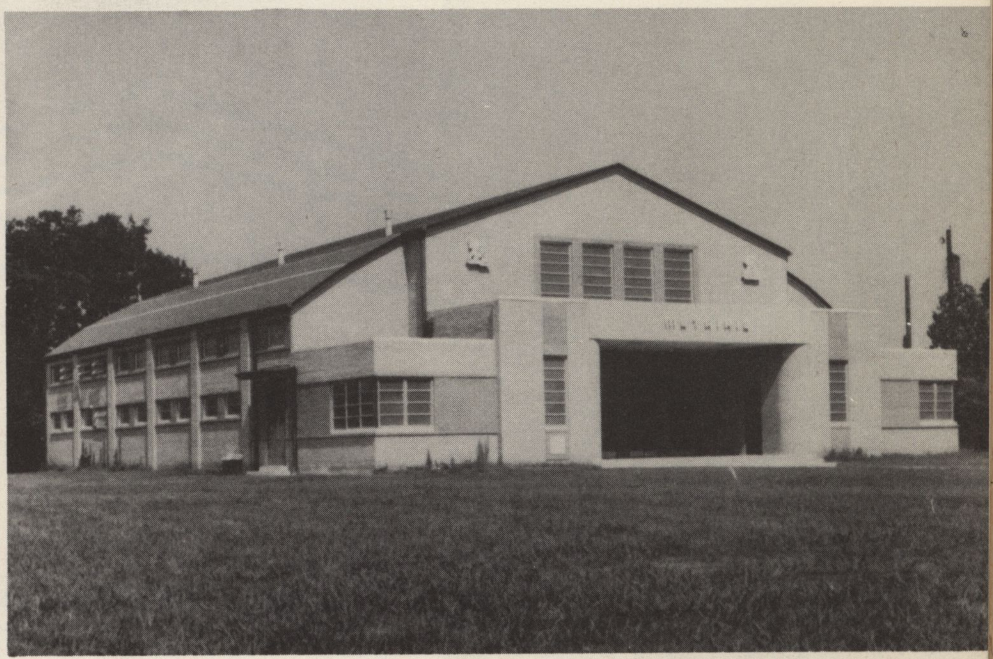
METAIRIE ALL-PURPOSE BUILDING
METAIRIE, LA.



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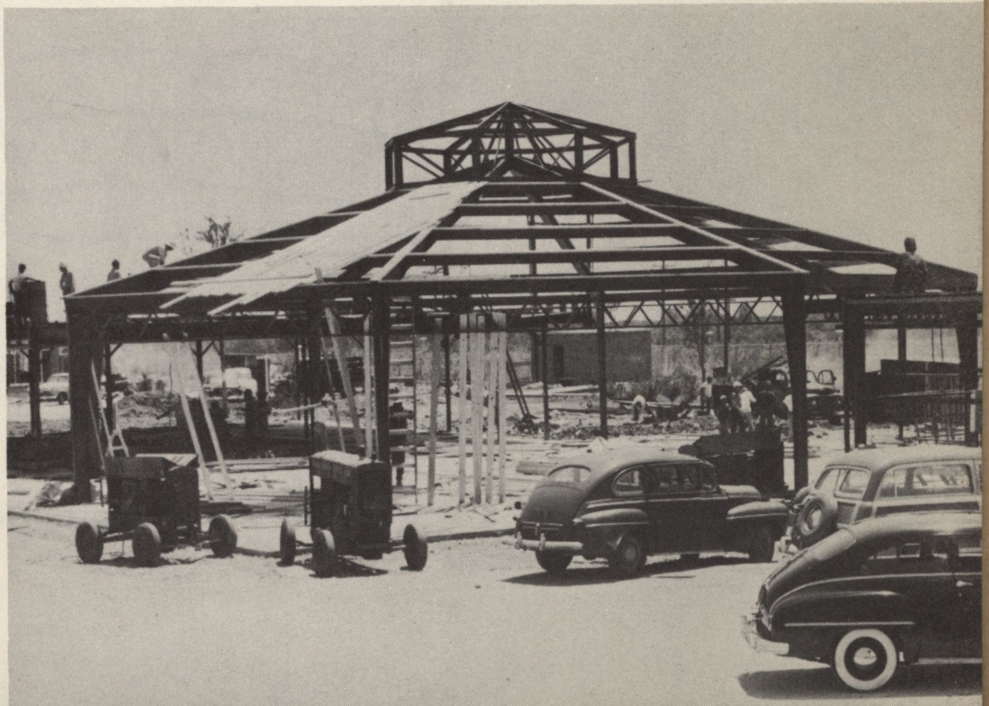
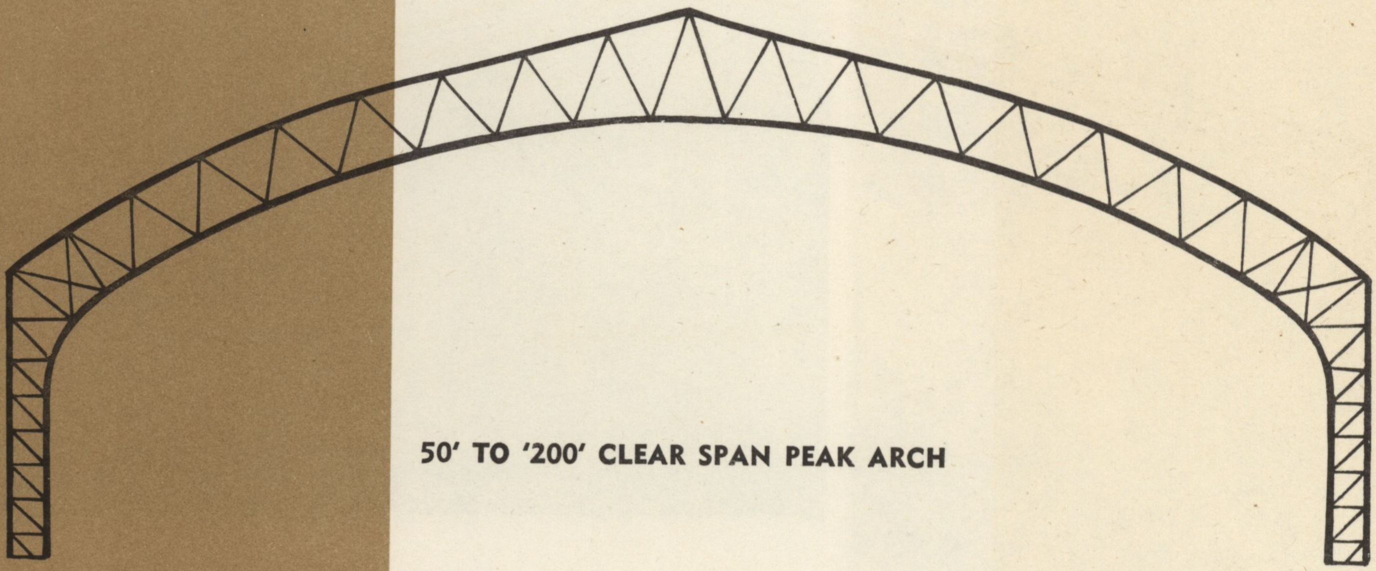
RECREATION BUILDING
LINCOLN BEACH
NEW ORLEANS, LA.



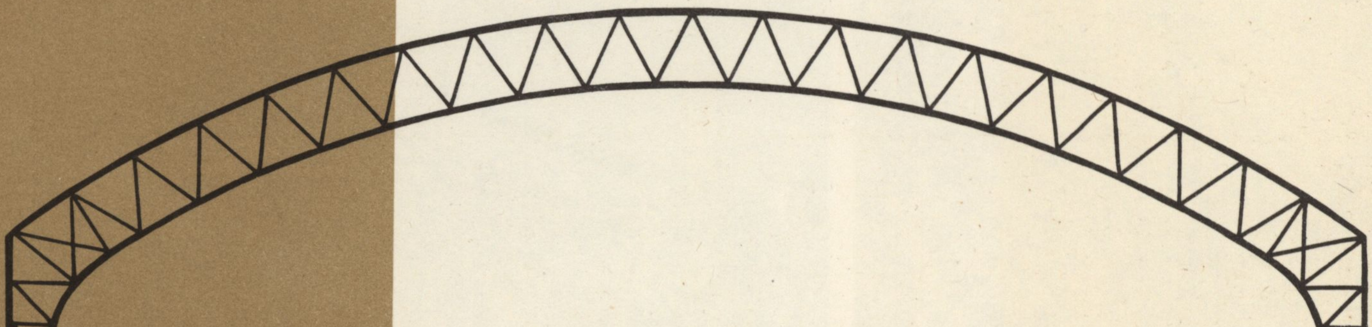
SPECIAL NOTICE TO ARCHITECTS, ENGINEERS, DESIGNERS AND BUILDERS

The following sketches show some of the designs of the Standard units we have on file. Certain of these buildings can be furnished in up to 250′ clear span, resulting in considerable savings in engineering costs. By using these Standard designs, the architect or designer need only dress up the exterior of the building to fit the skeleton furnished. We furnish complete foundation and floor designs for all buildings. We can design for special loading and special treatment of any building to meet the requirements of the architect or builder.

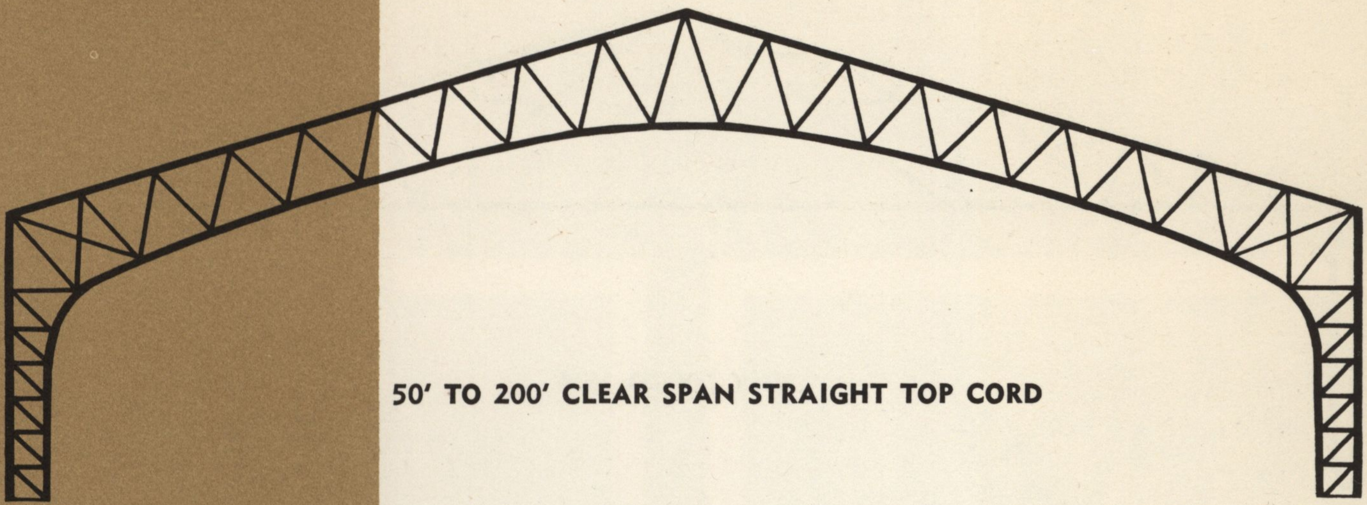
We carry a ready steel stock for the production of our Standard units, thus assuring minimum delivery time and minimum price.



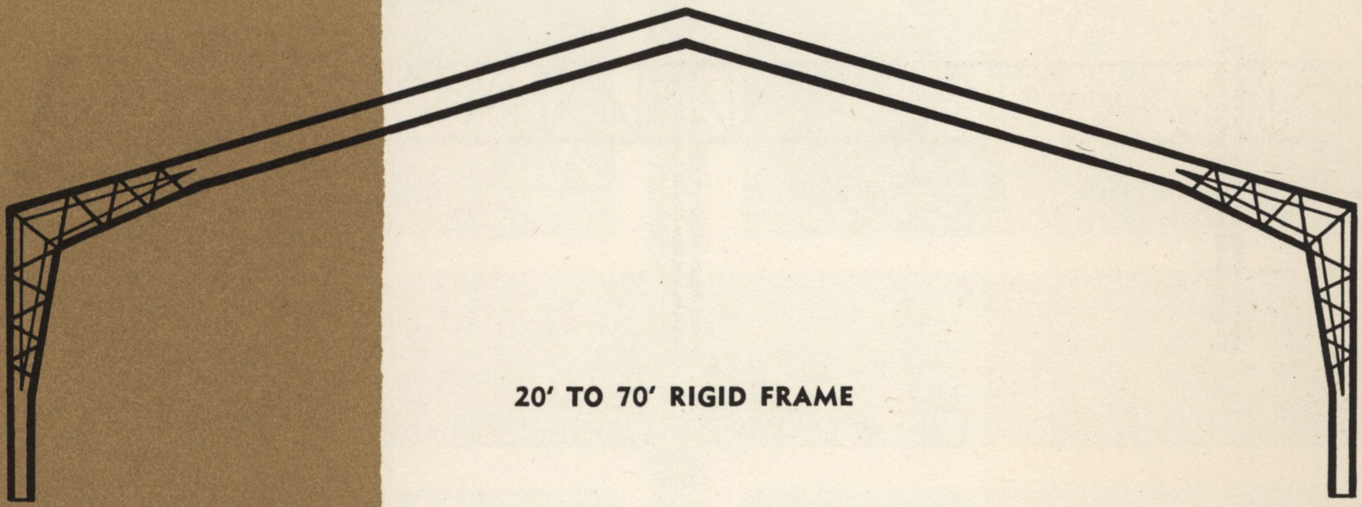
50′ TO ′200′ CLEAR SPAN PEAK ARCH



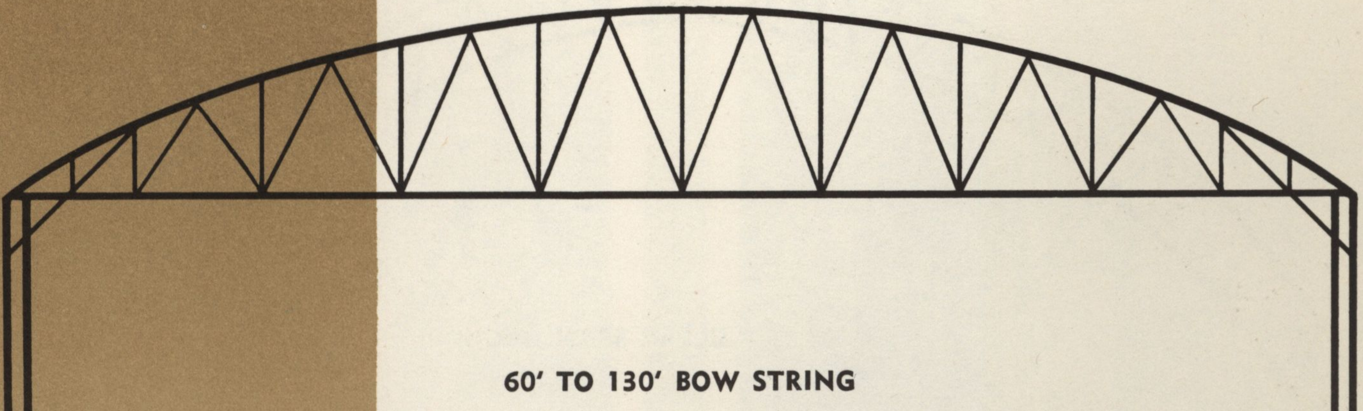
50′ TO 200′ CLEAR SPAN RAINBOW ARCH



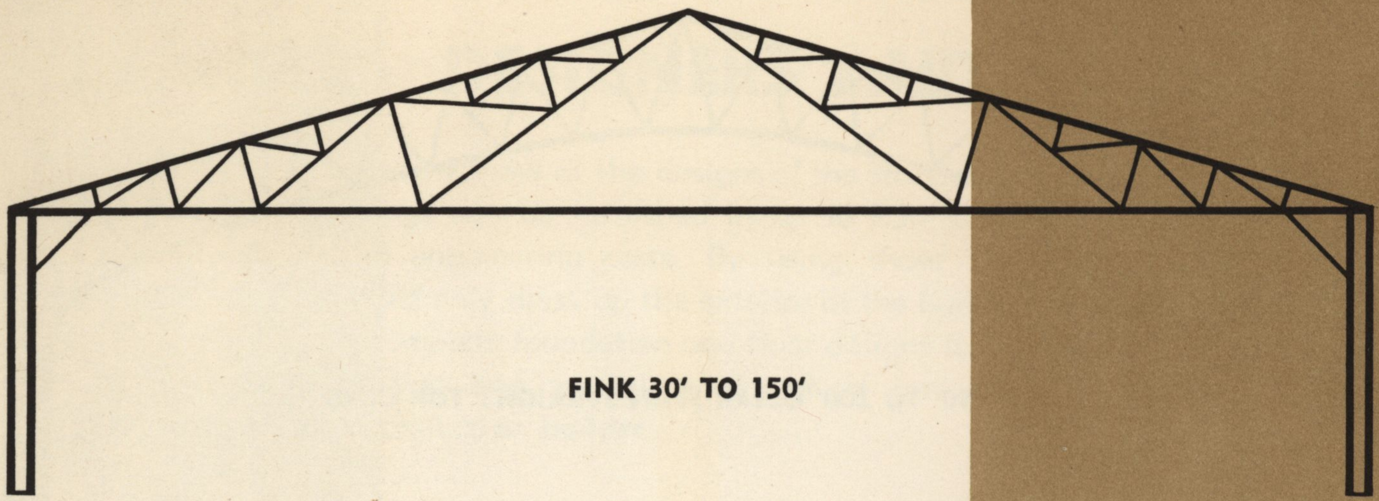
50′ TO 200′ CLEAR SPAN STRAIGHT TOP CORD



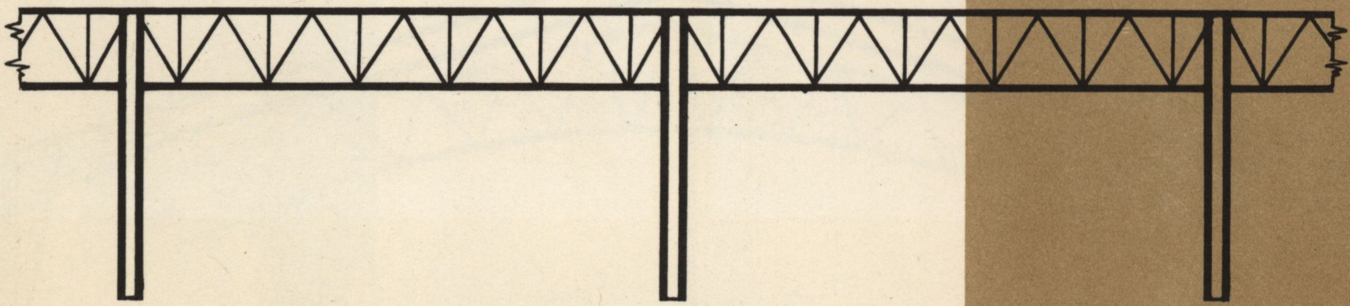
20′ TO 70′ RIGID FRAME



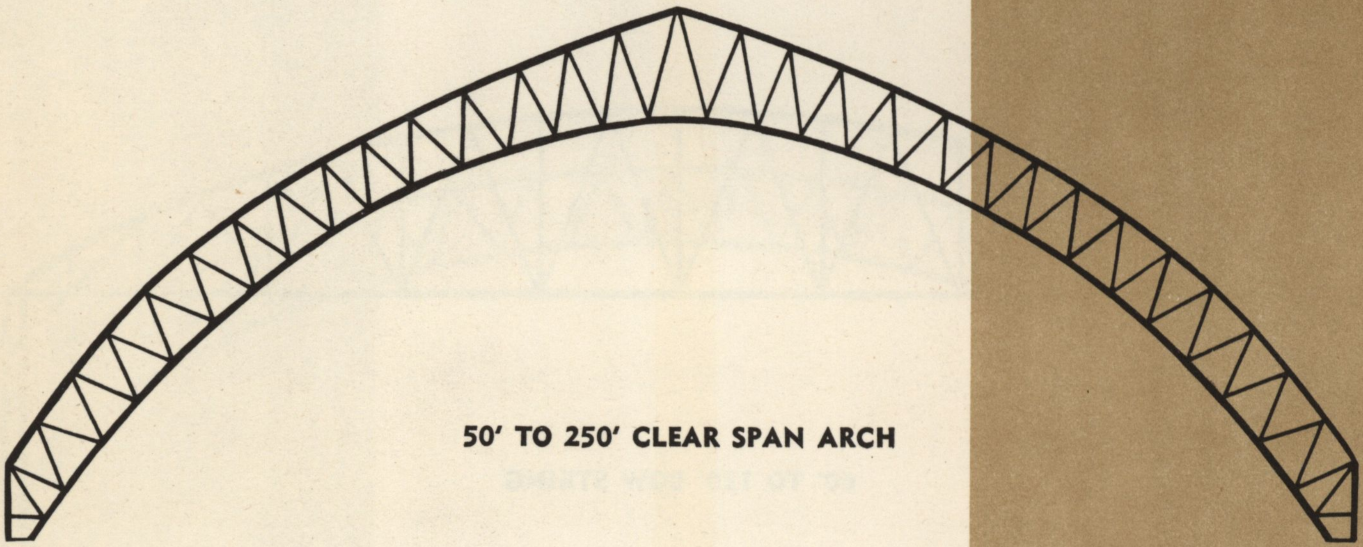
60′ TO 130′ BOW STRING



FINK 30′ TO 150′

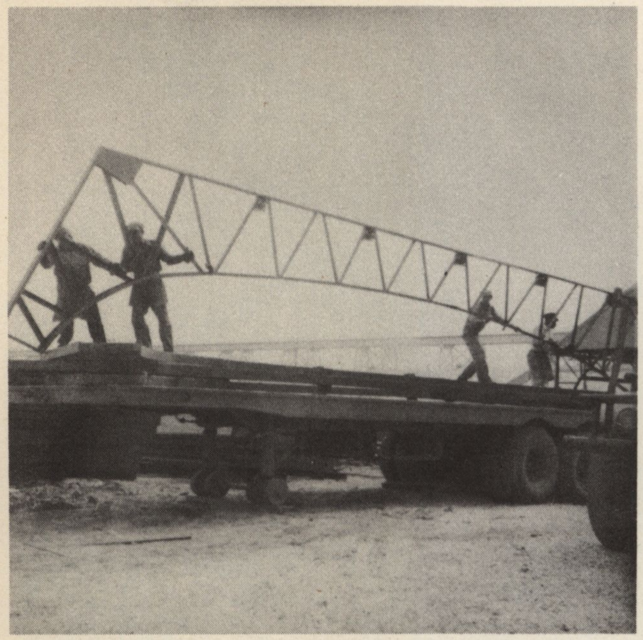


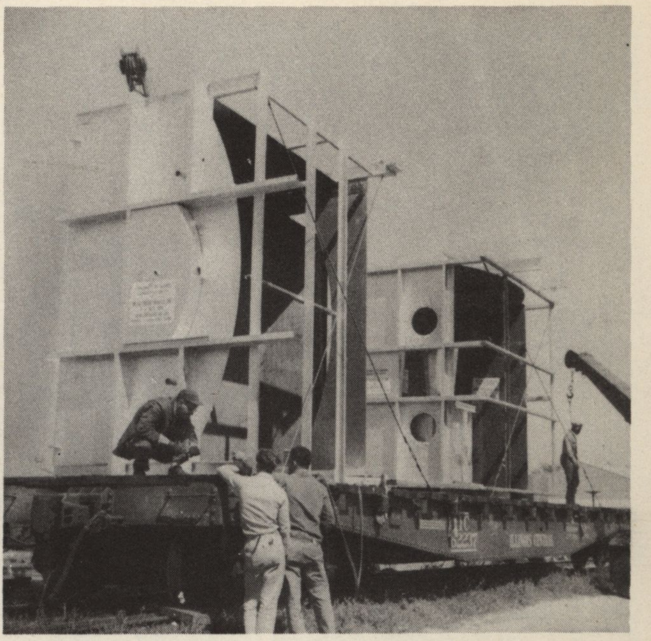
FLAT ROOF DESIGN

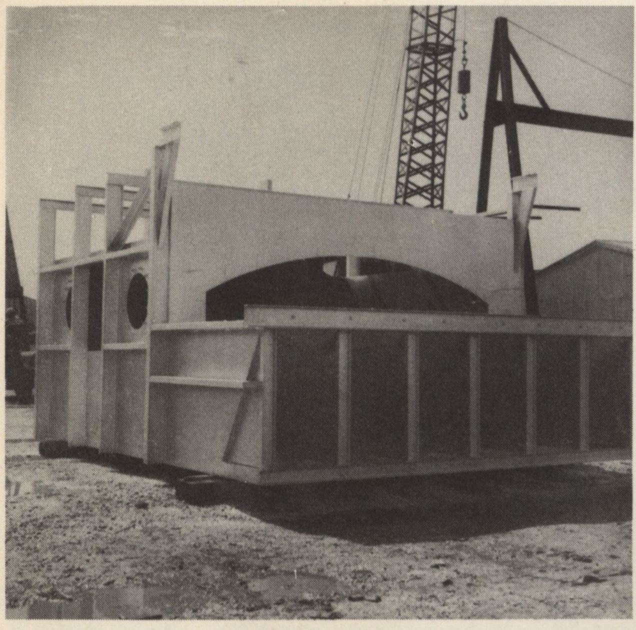


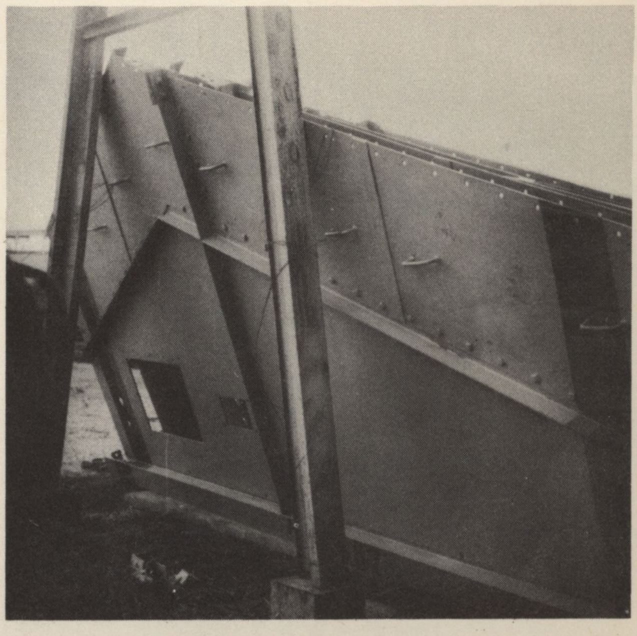
50′ TO 250′ CLEAR SPAN ARCH

MISCELLANEOUS FABRICATION









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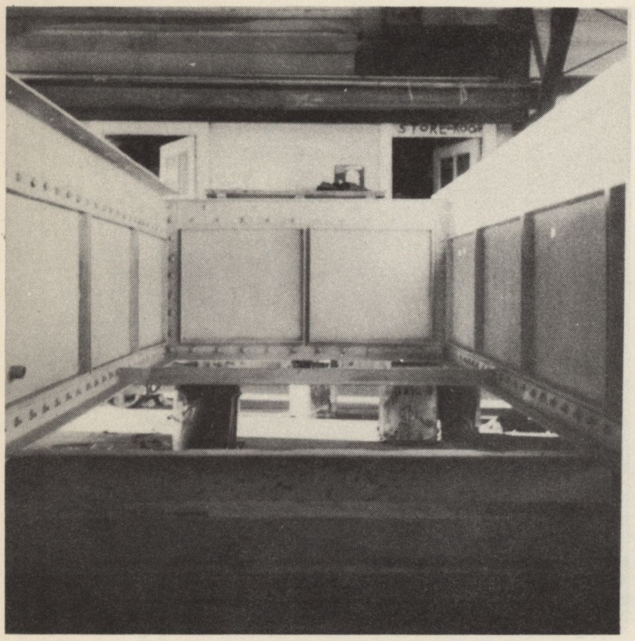

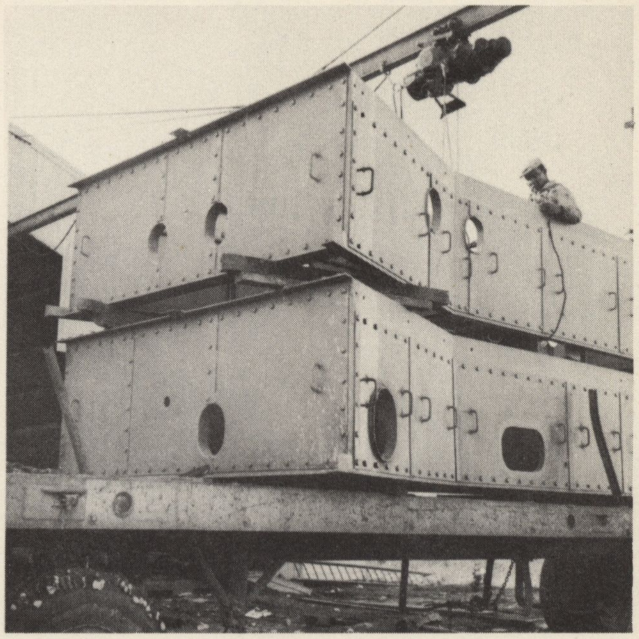

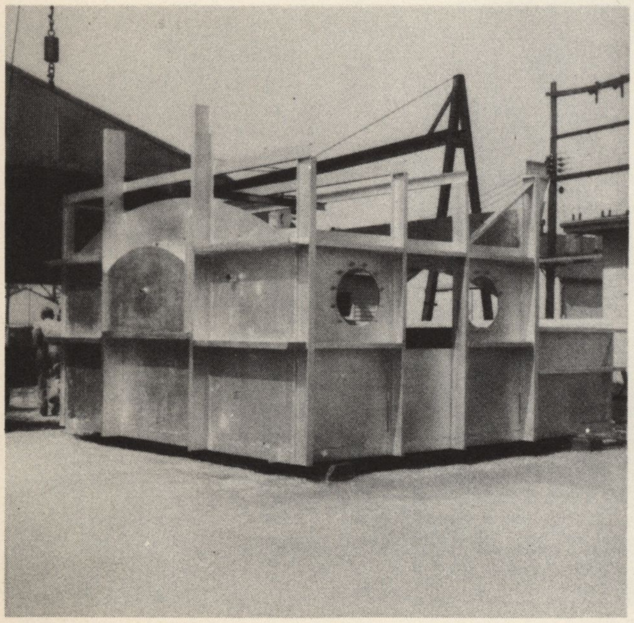

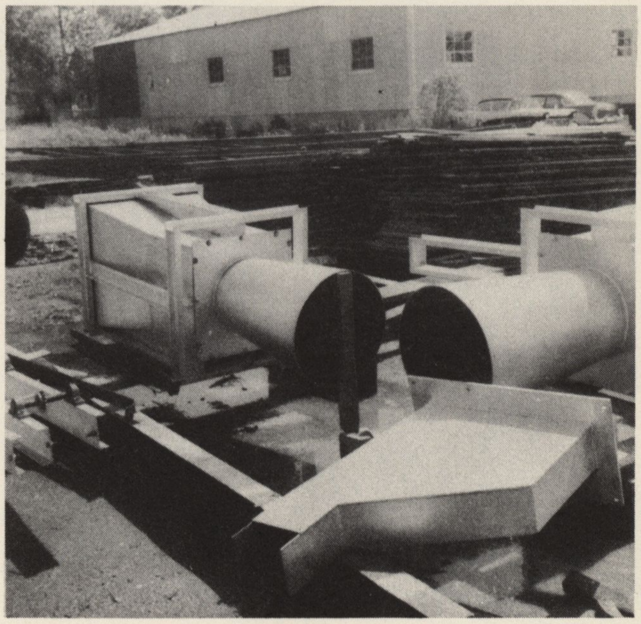

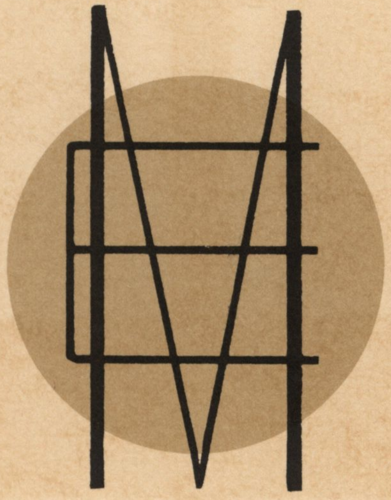

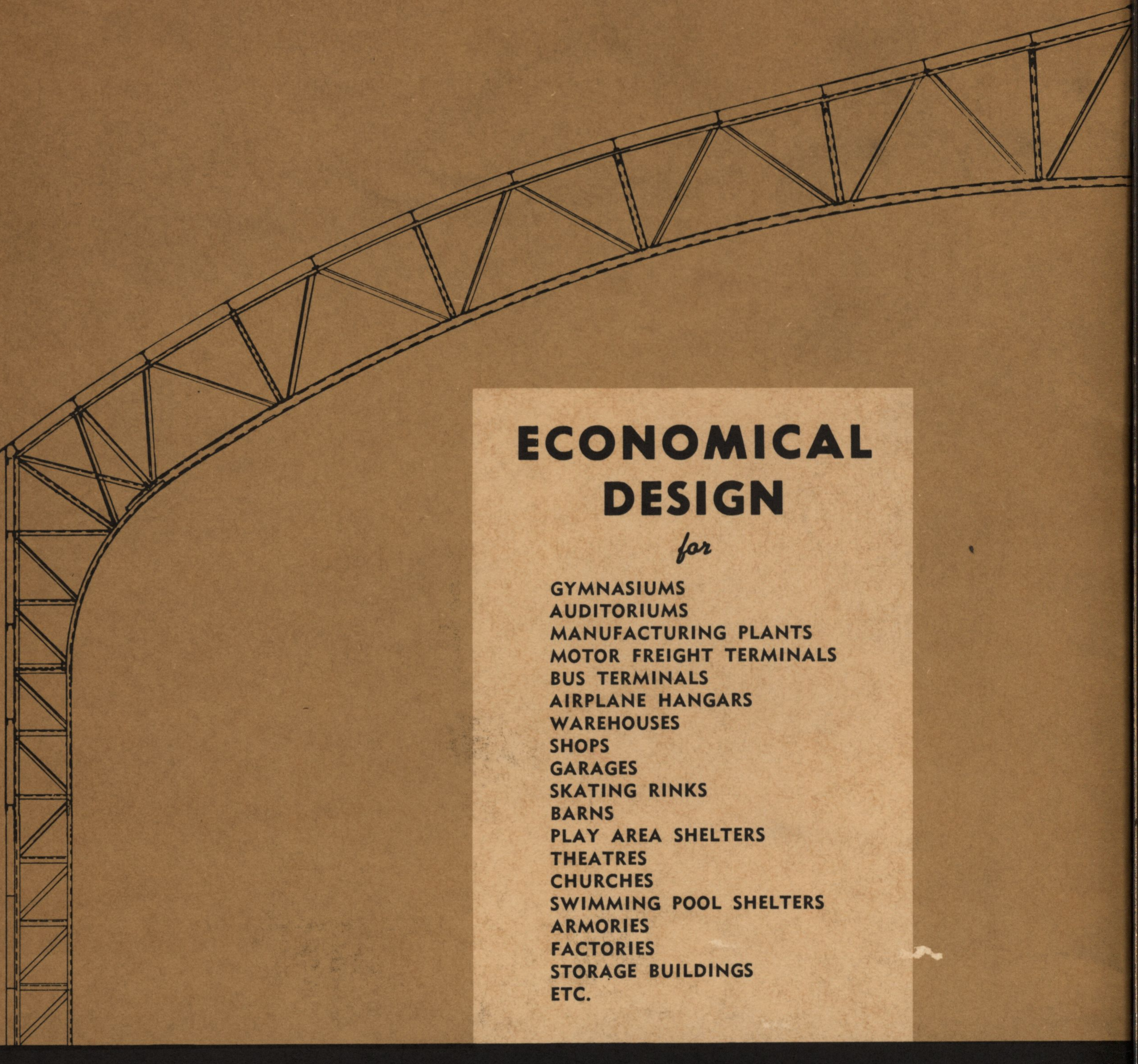

ECONOMICAL DESIGN

for

GYMNASIUMS
AUDITORIUMS
MANUFACTURING PLANTS
MOTOR FREIGHT TERMINALS
BUS TERMINALS
AIRPLANE HANGARS
WAREHOUSES
SHOPS
GARAGES
SKATING RINKS
BARNS
PLAY AREA SHELTERS
THEATRES
CHURCHES
SWIMMING POOL SHELTERS
ARMORIES
FACTORIES
STORAGE BUILDINGS
ETC.

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